

Title Index

- Acid Rain: Precipitating a Crisis for Wildlife?* A.H. Drummond, Jr. January:20.
After DDT: Farm Worker Safety. Lucy T. Pryde. May:25. (Science/Society Case Study)
Applied Science Moves the Unmotivated. William S. Franz. September:36.
Bilingual Education—Unsolved Problem on America's Agenda. Francis X. Suttman. December:16.
Biology Name Game. Timothy M. Cooney. February:43. (Classroom Ideas)
Biology "Update" File. Zubie W. Metcalf, Jr. February:43. (Classroom Ideas)
Black Holes—Nature's "Dark Stars." Robert M. Wald. April:24.
Breaking the Ice—and Winter's Spell—at Twin Buttes. Duane Keown. December:28.
Breeding Success in Science. Ronald D. Simpson. November:24.
Bringing Technology in Line with the Laws of Nature. Mary E. Clark. December:20.
British Experience with Standardized Tests. The. Connie Riley, Lester Gosier, Margaret Lockard, S.D. Squibb, and Lloyd Remington. October:32.
'Catch 22' of Unwanted Chemicals. The. Paul B. Hounshell and Charles R. Coble. May:29.
Chinese Swing Back to Science. Frank Swetz and Ying-king Yu. February:22.
Cloning: Learning to Replay the Genetic Tape. David J. Holden. November:27.
Copyright Do's and Don'ts. Lawrence R. Przekop. March:27.
Day We Hung Eighth Grade, The! Nancy C. Griffin. January:24.
Day-Tripping through England: A Science Teacher's Delight. Donald W. Stephen. March:24.
Design for Safety. Franklin D. Kizer. September:33.
Designing Science Lessons to Promote Cognitive Growth. Harvey Williams, C. William Turner, Lucien Debreuil, John Fast, and John Berestiansky. January:26.
Ecology in the Chemistry Lab. C. Bruce Hunter. December:34. (Classroom Ideas)
Einstein: A Celebration. J. Joel Berger. February:26.
Electronics in Science Teaching. Robert F. Tinker. September:26.
Energetic Math. Charles A. Reeves. January:35. (Classroom Ideas)
Energy Crisis Mobile. William B. Stine and Raymond G. Gordon. January:34. (Classroom Ideas)
"Flick Your Bic": A Gas Experiment. Edward H. Vickner, Jr. April:42. (Classroom Ideas)

Index to Articles Volume 46

The Science Teacher January-December 1979

This alphabetical index to articles includes listings by author and title.

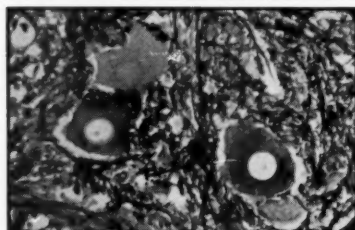
- "Game Plans" for Science.* Lynne C. Carter and Rhona Tye Lee. November:30.
Giving the Gifted Their Due. David J. Kuhn. February:32.
"Gone Sledding." Thomas R. Dobles. February:44. (Classroom Ideas)
Green Legacy: Project 50 Plants for Future Generations. Kenneth Highfill. March:39. (Classroom Ideas)
Haiku: Touching Nature Through Poetry. Robert E. Rowsey. November:36. (Classroom Ideas)
Helping the Special Student Fit In. Rodger W. Bybee. October:22.
High Technology Pizza, The (and other puzzles of modern nutrition). Ross Hume Hall. May:12.
Hyaline Membrane Disease: A Study in Body Systems. Richard Wiley Fardy. May:44. (Classroom Ideas)
Idea Bank. Irwin Talesnick, Editor. January:36; February:44; March:43; April:43; May:46; September:46; October:42; November:39; December:35.
Identifying Food Dyes by Chromatography. Harold T. McKone and Margaret Bell. November:37. (Classroom Ideas)
Image-Making in the Natural Resources. Richard H. Marqusee. April:41. (Classroom Ideas)
In Defense of Smoking—A Noble Lemming Instinct. Julian Kane. April:30.
'Jack and Jill' and Other Homemade Electrophoruses. J.C. Siddons. September:42. (Classroom Ideas)
Junior to What? Donna E. DeSeyn. May:17. (The Forum)
Keeping Students "On Task." William R. Capie, F. Gerald Dillshaw, and James R. Okey. December:31.
Laws-Are-Mature-Theories Fable, The. Jack K. Horner and Peter A. Rubba. February:31.
Learning the Art of Zoo Keeping. Arthur I. Kimura. December:26.
Low-budget Microprojector. A. Kent Stannard. September:45. (Classroom Ideas)
Marking Planaria Sections. Joel Hirshfield and Barbara Brondolo. October:40. (Classroom Ideas)
Matching Lab Activities with Teaching Goals. Vincent N. Lunetta and Pinchas Tamir. May:22.
Measuring with a Cross-Staff. Jon K. Wooley. September:44. (Classroom Ideas)
Moon Beams on Westlake, The. Jeanne E. Bishop. September:18.
Mountain High! David C. Taylor. April:21.
Nuclear Power Plant Simulation Game. Fran Weiss. May:42. (Classroom Ideas)
On "Caring" for Classroom Animals. F. Barbara Orlans. October:30. (The Forum)
"Once Upon a Time" Approach to Reading. A. David W. Cornelius. February:37.
One Shoe Off—A Lesson in Classification. Carolyn Sears. November:38. (Classroom Ideas)
Physics Name Game. Timothy M. Cooney. September:46. (Classroom Ideas)
Picric Acid Episode—An "Isolated Incident" That Wasn't, The. John J. McDermott and Irvin T. Edgar. October:35.
Puzzling Protozoa Concentrator. Randall R. Hedtke. April:43. (Classroom Ideas)
Research for Gifted Students: Cultivating a National Resource. Piyush Swami, John F. Schaff, and Jerome E. DeBruin. April:28.
Science: A Way of Knowing. Glen S. Aikenhead. September:23.
Scientific Writing Beyond the Textbook. Alice F. Randall. May:18.
Searching for Meaning in Science Education. Glenn D. Berkheimer and Richard J. McLeod. April:38.
Shorter Courses Attract More Kids. Keith A. McKain. March:35.
Simulating Satellite Stereophotography. Kent Stannard and Jay K. Hackett. October:38. (Classroom Ideas)
Simulating Solar Eclipses. B.E. Powell and George Bagwell. April:42. (Classroom Ideas)
Slides Teach Safety. Mary Eisenmann. September:42. (Classroom Ideas)
Small-Mammal Studies in the Out-of-Doors. Loren Lustig and Emmett Wright. November:18.
Student Experiments Fly with the Shuttle. Walter Saunders, Darrell Turner, James West, and Gilbert Moore. October:25.
Studying Sound: Music to Their Ears. Harold L. Crater and Laurie D. Davis. February:42. (Classroom Ideas)
Table-top Foucault Pendulum. Haym Kruglak and René Pittet. December:34. (Classroom Ideas)
Teacher is the Key: A Report on Three NSF Studies, The. James V. DeRose, J. David Lockard, and Lester G. Paldy. April:31.
Teaching in the Silicon Age. William L. Manley. March:33.
Ten Trends in Science Education. Marjorie Gardner. January:30.
This School is Building a Space Science Center. October:27.
Titration Method for Vitamin C. Michael J. Collins and James E. Webb. May:43. (Classroom Ideas)
Understanding Temperature Conversions. Don W. Mitchell and John Prugh. March:41. (Classroom Ideas)
Video Microprojection in Your Classroom. James B. Pulley. December:33. (Classroom Ideas)
Visualizing Relative Humidity. John Naple. October:41. (Classroom Ideas)

Waltz of the Molecules. Dan Milosch. March:39. (Classroom Ideas)
Wandering Jew: Focusing in on a Clear View of the Cell. Paul M. Thomson and Donald R. Bissing. January:33. (Classroom Ideas)
"Where Does the Old Moon Go?" Michael R. Cohen and Martin H. Kagan. November:22.
Where Is the Fun in Physics? Jearl Walker. March:30.

Author Index

- Aikenhead, Glen S. *Science: A Way of Knowing.* September:23.
 Bagwell, George and B. E. Powell. *Simulating Solar Eclipses.* April: 42. (Classroom Ideas)
 Bell, Margaret and Harold T. McKone. *Identifying Food Dyes by Chromatography.* November:37. (Classroom Ideas)
 Berestiansky, John, Harvey Williams, C. William Turner, Lucien Debreuil, and John Fast. *Designing Science Lessons to Promote Cognitive Growth.* January:26.
 Berger, J. Joel. *Einstein: A Celebration.* February:26.
 Berkheimer, Glenn D. and Richard J McLeod. *Searching for Meaning in Science Education.* April:38.
 Bishop, Jeanne E. *The Moon Beams on Westlake.* September:18.
 Bissing, Donald R. and Paul M. Thomson. *Wandering Jew: Focusing in on a Clear View of the Cell.* January: 33. (Classroom Ideas)
 Brondolo, Barbara and Joel Hirshfield. *Marking Planaria Sections.* October:40. (Classroom Ideas)
 Bybee, Rodger W. *Helping the Special Student Fit In.* October:22.
 Capie, William R., F. Gerald Dillashaw, and James R. Okey. *Keeping Students "On Task."* December:31.
 Carter, Lynne C. and Rhona Tye Lee. *"Game Plans" for Science.* November:30.
 Clark, Mary E. *Bringing Technology in Line with the Laws of Nature.* December:20.
 Coble, Charles R. and Paul B. Hounshell. *The "Catch 22" of Unwanted Chemicals.* May:29.
 Cohen, Michael R. and Martin H. Kagan. *"Where Does the Old Moon Go?"* November:22.
 Collins, Michael J. and James E. Webb. *Titration Method for Vitamin C.* May:43. (Classroom Ideas)
 Cooney, Timothy M. *Biology Name Game.* February:43. (Classroom Ideas)
 Cooney, Timothy M. *Physics Name Game.* September:46. (Classroom Ideas)
 Cornelius, David W. A *"Once Upon a Time" Approach to Reading.* February:37.
 Crater, Harold L. and Laurie D. Davis. *Studying Sound: Music to Their Ears.* February:42. (Classroom Ideas)
 Davis, Laurie D. and Harold L. Crater. *Studying Sound: Music to Their Ears.* February:42. (Classroom Ideas)
 Debreuil, Lucien, Harvey Williams, C. William Turner, John Fast, and John Berestiansky. *Designing Science Lessons to Promote Cognitive Growth.* January:26.
 DeBruin, Jerome E., Piyush Swami, and John F. Schaff. *Research for Gifted Students: Cultivating a National Resource.* April:28.
 DeRose, James V., J. David Lockard, and Lester G. Paldy. *The Teacher is the Key: A Report on Three NSF Studies.* April:31.
 DeSeyn, Donna E. *Junior to What?* May:17. (The Forum)
 Dillashaw, F. Gerald, William R. Capie, and James R. Okey. *Keeping Students "On Task."* December:31.
 Dobles, Thomas R. *"Gone Sledding."* February:44. (Classroom Ideas)
 Drummond, A. H., Jr. *Acid Rain: Precipitating a Crisis for Wildlife?* January:20.
 Edgar, Irvin T. and John J. McDermott. *The Picric Acid Episode—An "Isolated Incident" That Wasn't.* October:35.
 Eisenmann, Mary. *Slides Teach Safety.* September:42. (Classroom Ideas)
 Fardy, Richard Wiley. *Hyaline Membrane Disease: A Study in Body Systems.* May:44. (Classroom Ideas)
 Fast, John, Harvey Williams, C. William Turner, Lucien Debreuil, and John Berestiansky. *Designing Science Lessons to Promote Cognitive Growth.* January:26.
 Franz, William S. *Applied Science Moves the Unmotivated.* September:36.
 Gardner, Marjorie. *Ten Trends in Science Education.* January:30.
 Gordon, Raymond G. and William B. Stine. *Energy Crisis Mobile.* January:34. (Classroom Ideas)
 Gosier, Lester, Connie Riley, Margaret Lockard, S. D. Squibb, and Lloyd Remington. *The British Experience with Standardized Tests.* October:32.
 Griffin, Nancy C. *The Day We Hung Eighth Grade!* January:24.
 Hackett, Jay K. and Kent Stannard. *Simulating Satellite Stereophotography.* October:38. (Classroom Ideas)
 Hall, Ross Hume. *The High Technology Pizza (and other puzzlements of modern nutrition).* May:12.
 Hedtke, Randall R. *Puzzling Protozoa Concentrator.* April:43. (Classroom Ideas)
 Highfill, Kenneth. *Green Legacy: Project 50 Plants for Future Generations.* March:39. (Classroom Ideas)
 Hirshfield, Joel and Barbara Brondolo. *Marking Planaria Sections.* October:40. (Classroom Ideas)
 Holden, David J. *Cloning: Learning to Replay the Genetic Tape.* November:27.
 Horner, Jack K. and Peter A. Rubba. *The Laws-Are-Mature-Theories Fable.* February:31.
 Hounshell, Paul B. and Charles R. Coble. *The "Catch 22" of Unwanted Chemicals.* May:29.
 Hunter, C. Bruce. *Ecology in the Chemistry Lab.* December:34. (Classroom Ideas)
 Kagan, Martin H. and Michael Cohen. *"Where Does the Old Moon Go?"* November:22.
 Kane, Julian. *In Defense of Smoking—A Noble*
Lemming Instinct. April:30.
 Keown, Duane. *Breaking the Ice—and Winter's Spell—at Twin Buttes.* December:28.
 Kimura, Arthur I. *Learning the Art of Zoo Keeping.* December:26.
 Kizer, Franklin D. *Design for Safety.* September:33.
 Kruglak, Haym and René Pittet. *Table-top Foucault Pendulum.* December:34. (Classroom Ideas)
 Kuhn, David J. *Giving the Gifted Their Due.* February:32.
 Lee, Rhona Tye and Lynne C. Carter. *"Game Plans" for Science.* November:30.
 Lockard, J. David, James V. DeRose, and Lester G. Paldy. *The Teacher is the Key: A Report on Three NSF Studies.* April:31.
 Lockard, Margaret, Lester Gosier, Connie Riley, S. D. Squibb, and Lloyd Remington. *The British Experience with Standardized Tests.* October:32.
 Lunetta, Vincent N. and Pinchas Tamir. *Matching Lab Activities with Teaching Goals.* May:22.
 Lustig, Loren and Emmett Wright. *Small-Mammal Studies in the Out-of-Doors.* November:18.
 Manley, William L. *Teaching in the Silicon Age.* March:33.
 Marqusee, Richard H. *Image-Making in the Natural Resources.* April:41. (Classroom Ideas)
 McDermott, John J. and Irvin T. Edgar. *The Picric Acid Episode—An "Isolated Incident" That Wasn't.* October:35.
 McKain, Keith A. *Shorter Courses Attract More Kids.* March:35.
 McKone, Harold T. and Margaret Bell. *Identifying Food Dyes by Chromatography.* November:37. (Classroom Ideas)
 McLeod, Richard J and Glenn D. Berkheimer. *Searching for Meaning in Science Education.* April:38.
 Metcalf, Zubie W., Jr. *Biology "Update" File.* February:43. (Classroom Ideas)
 Milosch, Dan. *Waltz of the Molecules.* March:39. (Classroom Ideas)
 Mitchell, Don W. and John Prugh. *Understanding Temperature Conversions.* March:41. (Classroom Ideas)
 Moore, Gilbert, James West, Darrel Turner, and Walter Saunders. *Student Experiments Fly with the Shuttle.* October:25.
 Naple, John. *Visualizing Relative Humidity.* October:41. (Classroom Ideas)
 Okey, James R., William R. Capie, and F. Gerald Dillashaw. *Keeping Students "On Task."* December:31.
 Orland, F. Barbara. *On "Caring" for Classroom Animals.* October:30. (The Forum)
 Paldy, Lester G., J. David Lockard, and James V. DeRose. *The Teacher is the Key: A Report on Three NSF Studies.* April:31.
 Pittet, René and Haym Kruglak. *Table-top Foucault Pendulum.* December:34. (Classroom Ideas)
 Powell, B. E. and George Bagwell. *Simulating Solar Eclipses.* April:42. (Classroom Ideas)
 Prugh, John and Don W. Mitchell. *Under-*

- standing Temperature Conversions.* March:41. (Classroom Ideas)
- Pryde, Lucy T. *After DDT: Farm Worker Safety.* May:25. (Science/Society Case Study)
- Przekop, Lawrence R. *Copyright Do's and Don'ts.* March:27.
- Pulley, James B. *Video Microprojection in Your Classroom.* December:33. (Classroom Ideas)
- Randall, Alice F. *Scientific Writing Beyond the Textbook.* May:18.
- Reeves, Charles A. *Energetic Math.* January:35. (Classroom Ideas)
- Remington, Lloyd, S. D. Squibb, Margaret Lockard, Lester Gosier, and Connie Riley. *The British Experience with Standardized Tests.* October:32.
- Riley, Connie, Lester Gosier, Margaret Lockard, S. D. Squibb, and Lloyd Remington. *The British Experience with Standardized Tests.* October:32.
- Rowsey, Robert E. *Haiku: Touching Nature Through Poetry.* November:36. (Classroom Ideas)
- Rubba, Peter A. and Jack K. Homer. *The Laws-Are-Mature-Theories Fable.* February:31.
- Saunders, Walter, Darrel Turner, James West, and Gilbert Moore. *Student Experiments Fly with the Shuttle.* October:25.
- Schaff, John F., Piyush Swami, and Jerome E. DeBruin. *Research for Gifted Students: Cultivating a National Resource.* April:28.
- Sears, Carolyn. *One Shoe Off—A Lesson in Classification.* November:38. (Classroom Ideas)
- Siddons, J. C. *'Jack and Jill' and Other Homemade Electrophoruses.* September:42. (Classroom Ideas)
- Simpson, Ronald D. *Breeding Success in Science.* November:24.
- Squibb, S. D., Margaret Lockard, Lester Gosier, Connie Riley, and Lloyd Remington. *The British Experience with Standardized Tests.* October:32.
- Stannard, Kent. *A Low-Budget Microprojector.* September:45. (Classroom Ideas)
- Stannard, Kent and Jay K. Hackett. *Simulating Satellite Stereophotography.* October:38. (Classroom Ideas)
- Stephen, Donald W. *Day-Tripping through England: A Science Teacher's Delight.* March:24.
- Stine, William B. and Raymond G. Gordon. *Energy Crisis Mobile.* January:34. (Classroom Ideas)
- Sutman, Francis X. *Bilingual Education—Unsolved Problem on America's Agenda.* December:16.
- Swami, Piyush, John F. Schaff, and Jerome E. DeBruin. *Research for Gifted Students: Cultivating a National Resource.* April:28.
- Swetz, Frank and Ying-king Yu. *Chinese Swing Back to Science.* February:22.
- Tamir, Pinchas and Vincent N. Lunetta. *Matching Lab Activities with Teaching Goals.* May:22.
- Taylor, David C. *Mountain High!* April:21.
- Thomson, Paul M. and Donald R. Bissing. *Wandering Jew: Focusing in on a Clear View of the Cell.* January:33. (Classroom Ideas)
- Tinker, Robert F. *Electronics in Science Teaching.* September:26.
- Turner, C. William, Harvey Williams, Lucien Debreuil, John Fast, and John Berestiansky. *Designing Science Lessons to Promote Cognitive Growth.* January:26.
- Turner, Darrel, Walter Saunders, James West, and Gilbert Moore. *Student Experiments Fly with the Shuttle.* October:25.
- Talesnick, Irwin. (See Idea Bank.)
- Vickner, Edward H., Jr. *"Flick Your BIC": A Gas Experiment.* April:42. (Classroom Ideas)
- Wald, Robert M. *Black Holes—Nature's "Dark Stars."* April:24.
- Walker, Jearl. *Where Is the Fun in Physics?* March:30.
- Webb, James E. and Michael J. Collins. *Titration Method for Vitamin C.* May:43. (Classroom Ideas)
- Weiss, Fran. *Nuclear Power Plant Simulation Game.* May:42. (Classroom Ideas)
- West, James, Darrel Turner, Walter Saunders, and Gilbert Moore. *Student Experiments Fly with the Shuttle.* October:25.
- Williams, Harvey, C. William Turner, Lucien Debreuil, John Fast, and John Berestiansky. *Designing Science Lessons to Promote Cognitive Growth.* January:26.
- Wooley, Jon K. *Measuring with a Cross-Staff.* September:44. (Classroom Ideas)
- Wright, Emmett and Loren Lustig. *Small-Mammal Studies in the Out-of-Doors.* November:18.
- Yu, Ying-king and Frank Swetz. *Chinese Swing Back to Science.* February:22.



Photomicrograph, brain section, neurons.

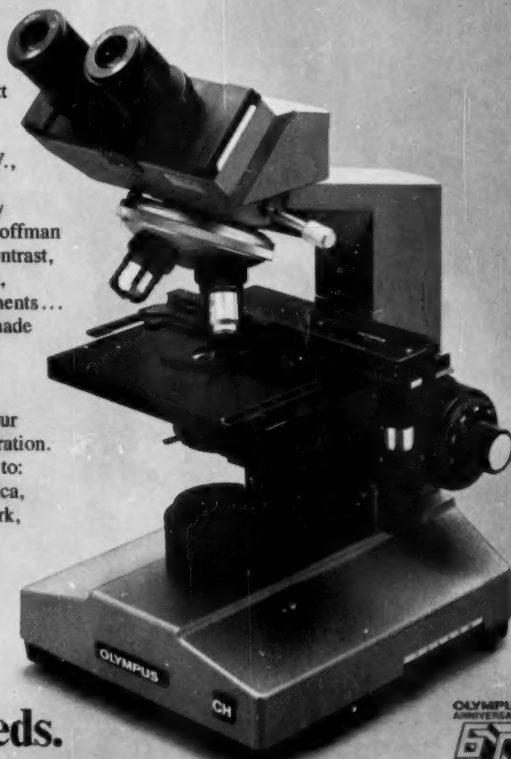
This new Olympus Series embodies all the major advances of our top-of-the-line microscopes, scaled to the needs of instructor and student alike.

The specially coated binocular observation tube reduces light loss to insignificance. The result: a vastly brighter image that offers such advanced microscopic capabilities as phase contrast and darkfield observation, using standard illumination.

Three models are offered: CHA with built-in 6V., 10 Watt halogen lamp; CHB with built-in 110V., 30 Watt tungsten lamp; CHC with 110V., 20 Watt substage illuminator.

And Olympus CH versatility continues: dual observation, Hoffman Modulation Contrast, phase contrast, darkfield, vertical illumination, drawing and polarizing attachments... and many more options now made affordable by Olympus.

To fully appreciate the workmanship, capability and value of the CH Series, ask your Olympus dealer for a demonstration. Or write for more information to: Olympus Corporation of America, 4 Nevada Drive, New Hyde Park, New York 11040.



In Canada: W. Carsen Co., Ltd., Ontario.

The Olympus CH Series.

Now, three high transmission models for learning/teaching needs.